

Title (en)  
SCREW COMPRESSOR

Title (de)  
SCHRAUBENVERDICHTER

Title (fr)  
COMPRESSEUR À VIS

Publication  
**EP 2233743 A4 20150401 (EN)**

Application  
**EP 08862921 A 20081217**

Priority  
• JP 2008003821 W 20081217  
• JP 2007324598 A 20071217

Abstract (en)  
[origin: EP2233743A1] In a casing (10) of a single screw compressor, slide valves (70) are disposed lateral to a screw rotor (40). The slide valves (70) each have a columnar valve body (60), and the valve body (60) has a surface (66) forming an arc-shaped surface and opposed to the slide valve (70). The opposed surface (66) of the valve body (66) includes front and back steps (64, 65). Dynamic pressures are generated using refrigerant gas blown toward the steps (64, 65). When the dynamic pressures generated on the steps (64, 65) act on the valve body (60), this reduces rotation of the valve body (60) and maintains the interval between the valve body (60) and the screw rotor (40).

IPC 8 full level  
**F04C 28/26** (2006.01); **F04C 18/52** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP US)  
**F04C 28/12** (2013.01 - EP US); **F04C 28/26** (2013.01 - EP US); **F04C 28/28** (2013.01 - EP US); **F04C 29/124** (2013.01 - EP US); **F04C 18/16** (2013.01 - EP US); **F04C 18/52** (2013.01 - EP US); **F04C 2230/91** (2013.01 - EP US); **F04C 2270/17** (2013.01 - EP US); **F04C 2270/58** (2013.01 - EP US)

Citation (search report)  
• [A] GB 2119856 A 19831123 - ZIMMERN BERNARD  
• [A] US 3314597 A 19670418 - BENEDICTUS SCHIBBYE LAURITZ  
• [A] GB 1555329 A 19791107 - HALL THERMOTANK PROD LTD  
• See references of WO 2009078178A1

Cited by  
EP4151858A4

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 2233743 A1 20100929; EP 2233743 A4 20150401; EP 2233743 B1 20160217**; CN 101896725 A 20101124; CN 101896725 B 20130710; JP 2009168011 A 20090730; JP 4311500 B2 20090812; US 2010260620 A1 20101014; US 8366405 B2 20130205; WO 2009078178 A1 20090625

DOCDB simple family (application)  
**EP 08862921 A 20081217**; CN 200880120904 A 20081217; JP 2008003821 W 20081217; JP 2008320675 A 20081217; US 80830008 A 20081217